Amendments to the Claims

Listing of Claims:

1. - 2. (cancelled)

3. (Currently Amended) An isolated nucleic acid molecule encoding ~~the protein of claim 1~~ a protein having mannosidase activity, wherein the protein comprises:

(a) an amino acid sequence comprising SEQ ID NO: 18;

(b) an amino acid sequence that differs from SEQ ID NO: 18 by one or more conservative amino acid substitutions; and

(c) an amino acid sequence comprising at least 60% sequence identity to SEQ ID NO: 18.

4. (previously presented) A recombinant nucleic acid molecule, comprising a promoter sequence operably linked to the nucleic acid of claim 3.

5. (previously presented) A cell, transformed with the recombinant nucleic acid molecule of claim 4.

6. (previously presented) The transformed cell of claim 5, wherein the cell is an insect cell, a yeast cell, an algae cell, a bacterial cell, a mammalian cell, or a plant cell.

7. (previously presented) A transgenic fungus, comprising the recombinant nucleic acid of claim 4.

8. - 9. (Cancelled)

10. (previously presented) A method for producing a macromolecule having an altered glycosylation pattern, comprising allowing the transformed cell of claim 4 to produce the macromolecule.

11. (Currently Amended) An isolated nucleic acid molecule, comprising ~~a sequence selected from the group consisting of~~:

~~(a) at least 20 contiguous nucleotides of the sequence shown in SEQ ID NO: 1;~~

~~(b) at least 30 contiguous nucleotides of the sequence shown in SEQ ID NO: 1;~~

~~(c) at least 40 contiguous nucleotides of the sequence shown in SEQ ID NO: 1;~~

~~(d)~~ at least 15 contiguous nucleotides of the sequence shown in SEQ ID NO: 17 ~~4;~~

~~(e) at least 20 contiguous nucleotides of the sequence shown in SEQ ID NO: 4;~~

~~(f) at least 30 contiguous nucleotides of the sequence shown in SEQ ID NO: 4;~~

~~(g) at least 40 contiguous nucleotides of the sequence shown in SEQ ID NO: 4;~~

~~(h) at least 50 contiguous nucleotides of the sequence shown in SEQ ID NO: 4; and~~

~~(i) at least 50 contiguous nucleotides of the sequence shown in SEQ ID NO: 1~~.

12. - 19. (Cancelled)

20. (new) The isolated nucleic acid molecule of claim 11, comprising at least 20 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.

21. (new) The isolated nucleic acid molecule of claim 11, comprising at least 30 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.

22. (new) The isolated nucleic acid molecule of claim 11, comprising at least 40 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.

23. (new) The isolated nucleic acid molecule of claim 11, comprising at least 50 contiguous nucleotides of the sequence shown in SEQ ID NO: 17.

24. (new) An isolated nucleic acid molecule, comprising at least 80% sequence identity to SEQ ID NO: 17.

25. (new) The isolated nucleic acid molecule of claim 24, comprising at least 90% sequence identity to SEQ ID NO: 17.

26. (new) The isolated nucleic acid molecule of claim 24, comprising at least 95% sequence identity to SEQ ID NO: 17.

27. (new) The isolated nucleic acid molecule of claim 24, comprising SEQ ID NO: 17.

28. (new) An isolated nucleic acid molecule, comprising a sequence that can hybridize to SEQ ID NO: 17 under very high stringency conditions, wherein the very high stringency conditions comprise incubation in 5x SSC at 65°C for 16 hours, washing twice in 2x SSC at room temperature for 15 minutes each, and washing twice in 0.2x SSC at 65°C 20 minutes each.

29. (new) The isolated nucleic acid molecule of claim 3, wherein the nucleic acid encodes a protein comprising at least 90% sequence identity to SEQ ID NO: 18.

30. (new) The isolated nucleic acid molecule of claim 3, wherein the nucleic acid encodes a protein comprising SEQ ID NO: 18.